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1 [Power-and Energy-Aware Computing: Computation offloading to save energy on handheld](#)



Zhiyuan Li, Cheng Wang, Rong Xu

November 2001 **Proceedings of the 2001 international conference on Compilers, architecture and embedded systems**

Publisher: ACM Press

Full text available: pdf(256.37 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We consider handheld computing devices which are connected to a server (or a powerful desktop). On such devices, it is often possible to save the energy on the handheld by offloading its computation work, based on profiling information on computation time and data sharing at the level of process graph for a given application program. We then apply a partition scheme to statically divide the

2 [Fairness and load balancing: Fairness and load balancing in wireless LANs using association](#)



Yigal Bejerano, Seung-Jae Han, Li (Erran) Li

September 2004 **Proceedings of the 10th annual international conference on Mobile computing and networking**

Publisher: ACM Press

Full text available: pdf(377.05 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index to](#)

Recent studies on operational wireless LANs (WLANs) have shown that user load is often uneven among access points (APs). This unbalanced load results in unfair bandwidth allocation among users. Unfair load and unfair bandwidth allocation can be greatly alleviated by intelligently associating users with APs, rather than having users greedily associate APs of best received signal strength. In this

Keywords: IEEE 802.11, approximation algorithms, load balancing, max-min fairness, wireless

3 [Wireless data performance in multi-cell scenarios](#)



T. Bonald, S. Borst, N. Hegde, A. Proutière

June 2004 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the joint Measurement and modeling of computer systems SIGMETRICS 2004/PERFORMANCE**

Publisher: ACM Press

Full text available: pdf(410.89 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The performance of wireless data systems has been extensively studied in the context of a single paper we investigate the flow-level performance in networks with multiple base stations. We study the dynamic interaction of the number of active flows in the various cells introduced by the strong interference from neighboring base stations. For the downlink data transmissions that we consider, lower service

Keywords: elastic traffic, fluid regime, insensitivity, multi-class processor-sharing, quasi-static varying service, wireless data networks

4 Havana: supporting application and channel dependent QoS in wireless packet networks

Javier Gomez, Andrew T. Campbell

January 2003 **Wireless Networks**, Volume 9 Issue 1

Publisher: Kluwer Academic Publishers


Full text available:  [pdf\(325.55 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index to](#)

For wireless channels, interference mitigation techniques are typically applied at the packet transmission level. This paper presents the Havana framework which supports *integrated adaptive-QoS* in wireless packet networks by addressing impairments over multiple time scales that are present at the flow/session level. The Havana framework consists of different control mechanisms that operate over distinct adaptation time scales. At the packet transmission level, packet ...

Keywords: QoS, adaptive wireless networks

5 Research track: Indexing multi-dimensional time-series with support for multiple distance measures

 Michail Vlachos, Marios Hadjieleftheriou, Dimitrios Gunopulos, Eamonn Keogh

August 2003 **Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining**

Publisher: ACM Press


Full text available:  [pdf\(906.69 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Although most time-series data mining research has concentrated on providing solutions for a single distance measure, in this work we motivate the need for a single index structure that can support multiple distance measures. The main goal is the efficient retrieval and analysis of trajectory similarities. Trajectory datasets are very common in many applications, mobility experiments, video surveillance and are especially important for the discovery of interesting patterns.

Keywords: dynamic time warping, longest common subsequence, trajectories

6 Data warehousing and OLAP: Semantic-based delivery of OLAP summary tables in wireless networks

 Mohamed A. Sharaf, Panos K. Chrysanthis

November 2002 **Proceedings of the eleventh international conference on Information and Knowledge Management**

Publisher: ACM Press


Full text available:  [pdf\(251.10 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

With the rapid growth in mobile and wireless technologies and the availability, pervasiveness and mobility of wireless networks, mobile computers are quickly becoming the normal front-end devices for accessing e-business services. We are addressing the issue of efficient delivery of business decision support data in the form of summary tables to users equipped with OLAP front-end tools. Towards this, we propose a new on-demand scheduling algorithm.

Keywords: broadcast pull, broadcast scheduling, mobile computing

7 Technical papers: Characterizing and modeling user mobility in a cellular data network

 Emir Halepovic, Carey Williamson

October 2005 **Proceedings of the 2nd ACM international workshop on Performance evaluation of sensor, and ubiquitous networks PE-WASUN '05**

Publisher: ACM Press

Full text available:  [pdf\(511.63 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index to](#)

The demand for cellular data networks is expected to increase with 3G and beyond technologies and the proliferation of consumer services, such as wireless video and camera phones. User mobility affects quality of service and makes network planning more difficult. This paper presents an analysis of user mobility patterns based on data collected from a regional CDMA2000 cellular network. We find low overall mobility in the network, power-law characteristics in the distribution of mobility patterns.

Keywords: CDMA2000, cellular data networks, network traffic measurement, user mobility, wireless networks

8 Adaptive call admission control for QoS/revenue optimization in CDMA cellular networks

Christoph Lindemann, Marco Lohmann, Axel Thümmler

July 2004 **Wireless Networks**, Volume 10 Issue 4

Publisher: Kluwer Academic Publishers


Full text available:  [pdf\(969.76 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index t](#)

In this paper, we show how online management of both quality of service (QoS) and provider re CDMA cellular networks by adaptive control of system parameters to changing traffic conditions introduction of a novel call admission control and bandwidth degradation scheme for real-time t of a Markov model for the admission controller. This Markov model incorporates important featu such ...

Keywords: admission control, network management and control, quality of service, queueing/

9 Parallel and distributed systems and networking: A particle swarm model for swarm-based

 B. Anthony Kadvovach, Gary B. Lamont

March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**

Publisher: ACM Press

Full text available:  [pdf\(614.37 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#),

Swarm behavior as demonstrated by flocks of birds, schools of fish, and swarms of insects prov implementing a distributed network of mobile sensor platforms. Such mobile sensor swarm syst or surveillance activities. Swarm behavior ensures safe separation between swarm members w These two properties, when considered in the context of sensors and wireless communications, coverage a ...

Keywords: distributed processing, networking, particle swarms, robotics, wireless

10 A comparative study of bandwidth reservation and admission control schemes in QoS-sen

Sunghyun Choi, Kang G. Shin

July 2000 **Wireless Networks**, Volume 6 Issue 4

Publisher: Kluwer Academic Publishers


Full text available:  [pdf\(329.88 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

We address the problem of distributed information aggregation and storage in a sensor network anywhere in the network. The principle we propose is that a sensor should know a "fraction" of parts of the network, in an exponentially decaying fashion by distance. We show how a samplec distributed fashion, with only a modest amount of additional storage and network traffic. Our st

Keywords: fractional cascading, information aggregation and storage, range searching, sensor

11 Group E: network capacity and achievable rate: Fractionally cascaded information in a ser

 Jie Gao, Leonidas J. Guibas, John Hershberger, Li Zhang

April 2004 **Proceedings of the third international symposium on Information processin**

Publisher: ACM Press


Full text available:  [pdf\(217.94 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index t](#)

We address the problem of distributed information aggregation and storage in a sensor network anywhere in the network. The principle we propose is that a sensor should know a "fraction" of parts of the network, in an exponentially decaying fashion by distance. We show how a samplec distributed fashion, with only a modest amount of additional storage and network traffic. Our st

Keywords: fractional cascading, information aggregation and storage, range searching, sensor

12 Special Issue on Medium Access and Call Admission Control Algorithms for Next Generati

 selective neighbor caching scheme for fast handoff in IEEE 802.11 wireless networks

Sangheon Pack, Hakyung Jung, Taekyoung Kwon, Yanghee Choi

October 2005 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 9 Iss

Publisher: ACM Press

Full text available:  [pdf\(633.68 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

Mobility support is one of the most challenging issues in IEEE 802.11 networks. In the proactive

when a mobile host is connected to an access point (AP), its context (e.g. security association c in advance to all of the AP's neighbors to reduce handoff processing time. In this paper, we prop (SNC) scheme, which propagates a mobile host's context only to the selected neighbor APs con:

13 Coverage: Minimal and maximal exposure path algorithms for wireless embedded sensor n



Giacomino Veltri, Qingfeng Huang, Gang Qu, Miodrag Potkonjak

November 2003 **Proceedings of the 1st international conference on Embedded networked s**

Publisher: ACM Press

Full text available: [pdf\(331.46 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#),

Sensor networks not only have the potential to change the way we use, interact with, and view use, interact with, and view the world around us. In order to maximize the effectiveness of sens examine, understand, and provide solutions for the fundamental problems related to wireless ei believe that one of such problems is to determine how well the sensor network monitors the ins problems ...

Keywords: centralized optimal algorithms, localized algorithms, simulation, wireless embedde

14 The impact of multicast layering on network fairness



Dan Rubenstein, Jim Kurose, Don Towsley

August 1999 **ACM SIGCOMM Computer Communication Review , Proceedings of the confe technologies, architectures, and protocols for computer communication SIG**

Publisher: ACM Press

Full text available: [pdf\(1.63 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#),

Many definitions of fairness for multicast networks assume that sessions are single-rate, requiri transmits data to all of its receivers at the same rate. These definitions do not account for multi layering, that permit receiving rates within a session to be chosen independently. We identify fc for multicast networks, derived from properties that hold within the max-min fair allocations of

15 Transaction papers: The impact of multicast layering on network fairness

Dan Rubenstein, Jim Kurose, Don Towsley

April 2002 **IEEE/ACM Transactions on Networking (TON)**, Volume 10 Issue 2

Publisher: IEEE Press

Full text available: [pdf\(388.26 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#),

Many definitions of fairness for multicast networks assume that sessions are single rate, requiri transmits data to all of its receivers at the same rate. These definitions do not account for multi layering, that permit receiving rates within a session to be chosen independently. We identify fc for multicast networks, derived from properties that hold within the max-min fair allocations of

Keywords: congestion control, fairness, multicast

16 Fault-Tolerant Techniques for Ambient Intelligent Distributed Systems

Diana Marculescu, Nicholas H. Zamora, Phillip Stanley-Marbell, Radu Marculescu

November 2003 **Proceedings of the 2003 IEEE/ACM international conference on Computer-**

Publisher: IEEE Computer Society

Full text available: [pdf\(466.94 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Ambient Intelligent Systems provide an unexplored hardware platformfor executing distributed constraints.These systems must respond quickly to changes in userbehavior or environmental c availabilityand fault-tolerance under given quality constraints. Thesesystems will necessitate fai applications.One way to provide such fault-tolerance is to employ the use of redundancy.Hundr

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1 [Data-delay evaluation in integrated wireless networks based on local product-form solution occupancy](#)

Jeffrey E. Wieselthier, Craig M. Barnhart, Anthony Ephremides

December 1996 **Wireless Networks**, Volume 2 Issue 4

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(609.68 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

In this paper we consider the evaluation of data-packet delay in wireless integrated voice/data networks that support voice in the classical circuit-switched fashion, the voice occupancy process product-form solution under reasonable modeling assumptions. Although this product-form solution provides an accurate characterization of equilibrium voice-traffic behavior, it does not directly provide a method for data-packet delay. However, examination of each link ...

2 [Information systems curriculum recommendations for the 80s: undergraduate and graduate](#)

Jay F. Nunamaker, J. Daniel Couger, Gordon B. Davis

November 1982 **Communications of the ACM**, Volume 25 Issue 11

Publisher: ACM Press

Full text available: [pdf\(2.20 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

The recommendations of the 1972 and 1973 ACM Curriculum Committee on Information Systems have been influential in the development of degree programs at the bachelor's, master's, and doctoral levels. The earlier curriculum has been revised and updated based on advances in the field over the past nine years. This report discusses the continuing need for education related to the definition, analysis, design, and management of information systems in organizations. The structure ...

3 [Facial animation & hair: Vision-based control of 3D facial animation](#)

Jin-xiang Chai, Jing Xiao, Jessica Hodgins

July 2003 **Proceedings of the 2003 ACM SIGGRAPH/Eurographics symposium on Computer Animation**

Publisher: Eurographics Association

Full text available: [pdf\(12.59 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

Controlling and animating the facial expression of a computer-generated 3D character is a difficult task because the face has many degrees of freedom while most available input devices have few. In this paper, we show that a rich set of lifelike facial actions can be created from a preprocessed motion capture dataset. A user can control these actions by acting out the desired motions in front of a video camera. We use a real-time facial tracking system to extract a small set of parameters that control the facial expression ...

4

[Programmable execution of multi-layered networks for automatic speech recognition](#)



Y. Bengio, R. Cardin, R. De Mori, E. Merlo

February 1989 **Communications of the ACM**, Volume 32 Issue 2

Publisher: ACM Press

Full text available: [pdf\(781.61 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

A set of Multi-Layered Networks allows the integration of information extracted with variable res and frequency domains and to keep the number of links between nodes of the networks small for generalization during learning with a reasonable training set size.

5 Multi-media document representation and retrieval



Esen Ozkarahan, Fazli Can

April 1991 **Proceedings of the 19th annual conference on Computer Science**

Publisher: ACM Press

Full text available: [pdf\(1.10 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#)

6 Retrieving spoken documents by combining multiple index sources



G. J. F. Jones, J. T. Foote, K. Spärck Jones, S. J. Young

August 1996 **Proceedings of the 19th annual international ACM SIGIR conference on Research development in information retrieval**

Publisher: ACM Press

Full text available: [pdf\(1.12 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 Scheduling real-time traffic with deadlines over a wireless channel

Sanjay Shakkottai, R. Srikant

January 2002 **Wireless Networks**, Volume 8 Issue 1

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(244.76 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

Recently, there has been widespread interest in the extension of data networks to the wireless. scheduling results from the wireline domain do not carry over to wireless systems because wire unique characteristics not found in wireline channels, namely, limited bandwidth, bursty channel location-dependent channel errors. In this paper, we study the problem of scheduling multiple real-time traffic with deadlines, over a shared channel. We show that, in ...

Keywords: Quality-of-Service, bursty channels, real-time traffic, scheduling

8 On channel adaptive multiple access control without contention queue for wireless multimedia

Yu-Kwong Kwok, Vincent Kin-Nang Lau

July 2003 **Wireless Networks**, Volume 9 Issue 4

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(3.23 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As tetherless multimedia computing environments are becoming much desired, broadband wireless communication infrastructures for providing wireless multimedia services will play an important role expected to proliferate. However, despite much research efforts have been expended, the multi-access of the precious bandwidth remains a challenging problem because of the existence of two common state-of-the-art protocols: (1) channel condition is ignored or no ...

Keywords: adaptive protocol, mobile computing, multiple access control, wireless multimedia


9 Local networks



William Stallings

March 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 1

Publisher: ACM Press

Full text available:  pdf(3.01 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

The rapidly evolving field of local network technology has produced a steady stream of local network standards in recent years. The IEEE 802 standards that are now taking shape, because of their complexity, cover a wide range of alternative technical approaches and at the same time encourage more vendors to participate. The purpose of this paper is to present a systematic, organized overview of the alternative architectural design approaches to local networks.

...

10 [Mobile and multicast IP services in PACS: system architecture, prototype, and performance](#)

Yongguang Zhang, Bo Ryu

January 2001 **Mobile Networks and Applications**, Volume 6 Issue 1

Publisher: Kluwer Academic Publishers

Full text available:  pdf(299.74 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: Mobile IP, PACS, cellular network, internet service, multicast

11 [Performance analysis for a new medium access control protocol in wireless LANs](#)

Younggoo Kwon, Yuguang Fang, Haniph Latchman

September 2004 **Wireless Networks**, Volume 10 Issue 5

Publisher: Kluwer Academic Publishers

Full text available:  pdf(301.06 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

One fundamental issue in high-speed wireless local area networks (LANs) is to develop efficient medium access control (MAC) protocols. In this paper, we focus on the performance improvement in both MAC and transport layer by using a novel medium access control protocol for high-speed wireless LANs designed to sense multiple access/collision avoidance (CSMA/CA). We first present a recently proposed distributed MAC protocol utilizing a Fast Collision Resolution (FCR) ...

Keywords: IEEE 802.11, TCP, UDP, medium access control (MAC), wireless LANs (WLANs)



12 [Automatic stochastic tagging of natural language texts](#)

Evangelos Dermatas, George Kokkinakis

June 1995 **Computational Linguistics**, Volume 21 Issue 2

Publisher: MIT Press

Full text available:

 pdf(1.31 MB)  [Publisher Site](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Five language and tagset independent stochastic taggers, handling morphological and contextual information, are presented and tested in corpora of seven European languages (Dutch, English, French, German, and Spanish), using two sets of grammatical tags; a small set containing the eleven main grammatical categories and a large set of grammatical categories common to all languages. The unknown words are tagged using an experimentally proven stochastic hypothesis that links the stochastic ...

13 [A cost-benefit flow control for reliable multicast and unicast in overlay networks](#)

Yair Amir, Baruch Awerbuch, Claudiu Danilov, Jonathan Stanton

October 2005 **IEEE/ACM Transactions on Networking (TON)**, Volume 13 Issue 5

Publisher: IEEE Press

Full text available:  pdf(651.18 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

When many parties share network resources on an overlay network, mechanisms must exist to allocate resources and protect the network from overload. Compared to large physical networks such as the Internet, overlay networks have smaller dimensions of the task, so new and possibly more effective techniques can be used. In this work we take a fresh look at the problem of flow control in multisender multigroup communication and explore a cost-benefit approach that works in ...

Keywords: flow control, overlay networks, reliable multicast

14 Issues in satellite personal communication systems

Erich Lutz

February 1998 **Wireless Networks**, Volume 4 Issue 2

Publisher: Kluwer Academic Publishers

Full text available:  pdf(742.57 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

In the paper various issues in personal satellite communications are addressed. Basic geostationary and geostationary satellite constellations are considered. The narrowband and wideband characteristics of the satellite channel and related system implications are discussed. Satellite diversity is presented to overcome signal shadowing. The capacity of TDMA and CDMA multiple access is estimated, taking into account channel interference. Various network issues, such as ...

15 A comparative study of bandwidth reservation and admission control schemes in QoS-sensitive networks

Sunghyun Choi, Kang G. Shin

July 2000 **Wireless Networks**, Volume 6 Issue 4

Publisher: Kluwer Academic Publishers

Full text available:  pdf(329.88 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

16 Lessons from the battlefield



Thomas P. Vayda

October 1995 **ACM SIGPLAN Notices, Proceedings of the tenth annual conference on Object-oriented programming systems, languages, and applications OOPSLA '95**, Volume 30 Issue 10

Publisher: ACM Press

Full text available:  pdf(1.57 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The pragmatic aspects of deploying large scale Object Oriented (OO) applications are examined by identifying some of the main obstacles that arise in typical large scale OO projects, and offering effective solutions. This paper is based on a number of actual large scale projects in which the author participated in a significant capacity and solutions that he adopted or developed to deal with the problems encountered.

17 A unified approach for improving QoS and provider revenue in 3G mobile networks

Christoph Lindemann, Marco Lohmann, Axel Thümmel

June 2003 **Mobile Networks and Applications**, Volume 8 Issue 3

Publisher: Kluwer Academic Publishers

Full text available:  pdf(407.92 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

In this paper, we introduce a unified approach for the adaptive control of 3G mobile networks in terms of both quality of service (QoS) for mobile subscribers and to increase revenue for service providers. The approach constantly monitors QoS measures as packet loss probability and the current number of users during operation of the network. Based on the values of the QoS measures just observed, the parameters of the admission controller and packet scheduler are adapted.

Keywords: admission control in mobile system, performance evaluation of next generation mobile networks, pricing and revenue optimization, quality of service in mobile systems

18 Communications networks for the force XXI digitized battlefield

Paul Sass

October 1999 **Mobile Networks and Applications**, Volume 4 Issue 3

Publisher: Kluwer Academic Publishers

Full text available:  pdf(745.29 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

In striving to meet the increasing demands for timely delivery of multimedia information to the 21st Century, the US Army is undergoing a gradual evolution from its "legacy" communications flexible internetwork architecture based solidly on the underlying communications protocols and commercial Internet. The framework for this new digitized battlefield, as described in the DoD's Architecture (JTA), is taken from t ...

19 Analysis methodology: Simulation of large networks: modeling and simulation of telecomm networks for control and management

John S. Baras

December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovati**

Publisher: Winter Simulation Conference

Full text available:  [pdf\(812.19 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

In this paper we describe methodologies for telecommunication networks modeling and simulation targeted to be useful as tools in on-line and off-line decision making of the type encountered in management and planning problems. We describe the development, validation and use of self-s fractal models, queuing control and performance evaluation, assessing the incremental utility of hierarchical models based on aggregation, analytic approx ...

20 A cellular wireless local area network with QoS guarantees for heterogeneous traffic

Sunghyun Choi, Kang G. Shin

June 1998 **Mobile Networks and Applications**, Volume 3 Issue 1

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(374.40 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

A wireless local area network (WLAN) or a cell with quality-of-service (QoS) guarantees for vari is considered. A centralized (i.e., star) network is adopted as the topology of a cell which consis station and a number of mobile clients. Dynamic Time Division Duplexed (TDD) transmission is the same frequency channel is time-shared for downlink and uplink transmissions under the dy the base station. We divide traffic into two cl ...

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